



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Matthew A. Spear  
Serial No.: 10/501,609  
Filed: 04/15/2005  
Entitled: **Functional Ligand Display**

Group No.: 1639  
Examiner: Shibuya, M.L.

**INFORMATION DISCLOSURE STATEMENT**

**MS Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)**

I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: August 1, 2007

By: \_\_\_\_\_

*Cliff Cannon-Cin*  
Cliff Cannon-Cin

Dear Sir:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. § 1.56 and § 1.97. The Examiner is requested to make these citations of official record in this application:

- U.S. Patent No. 5,824,520 of Mulligan-Kehoe, "Phage-display of immunoglobulin heavy chain libraries for identification of inhibitors of intracellular constituents," (1998);
- U.S. Patent No. 6,287,874 of Hefti, "Methods for analyzing protein binding events," (2001);
- U.S. Publication No. 2001/0055585 of Cance *et al.*, "FRNK proteins in the treatment of tumor cells," (2001);
- Arap *et al.*, "Cancer treatment by targeted drug delivery to tumor vasculature in a mouse model," *Science*, 279:377-380 (1998);

- Chowdhury *et al.*, "Analysis of cloned Fvs from a phage display library indicates that DNA immunization can mimic antibody response generated by cell immunizations," *J Immunol Methods*, 231:83-91 (1999);
- Larocca *et al.*, "Gene transfer to mammalian cells using genetically targeted filamentous bacteriophage," *FASEB J*, 13:727-734 (1999);
- Moore *et al.*, "Simultaneous measurement of cell cycle and apoptotic cell death," *Methods Cell Biol*, 57:265-278 (1998);
- Spear *et al.*, "Isolation, characterization, and recovery of small peptide phage display epitopes selected against viable malignant glioma cells," *Cancer Gene Ther*, 8:506-511 (2001); and
- Winthrop *et al.*, "Development of a hyperimmune anti-MUC-1 single chain antibody fragments phage display library for targeting breast cancer," *Clin Cancer Res*, 5:3088s-3094s (1999).

This Information Disclosure Statement under 37 C.F.R. § 1.56 and § 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: August 1, 2007



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INFORM  
(37 CFR § 1.98(b)).